

PROPOSED REVISIONS

Attachment 1

California Statewide LIEE Policy and Procedures Manual

Table 5-1: Eligible Measures for 2006

Measure	Eligibility
Ceiling Insulation	All Climate Zones and Residence Types
Low Flow Showerheads	All Climate Zones and Residence Types
Water Heater Insulation	All Climate Zones and Residence Types
Weather-Stripping Doors	All Climate Zones and Residence Types
Caulking	All Climate Zones and Residence Types
Outlet Cover Plate Gaskets	All Climate Zones and Residence Types
Faucet Aerators	All Climate Zones and Residence Types
Water Heater Pipe Insulation	All Climate Zones and Residence Types
Evaporative Coolers	Climate zones 10-16 only; single family and mobile homes only
Refrigerator Replacements	All Climate Zones and Residence Types
Evaporative Cooler and Air Conditioner Vent Covers	All Climate Zones and Residence Types
Hard-Wired Compact Fluorescent Lamp Porch Light Fixtures	All climate Zones, but Single Family Homes only
Thread-Based Compact Fluorescent Lamps	All climate Zones and Residence Types
High Efficiency Window/Wall Air Conditioners	Climate Zones 10-15 only
High Efficiency Central Air Conditioners	Climate Zones 14 and 15 only
Duct Testing and Sealing	All Climate Zones for Single Family and Mobile Homes with gas space heating; Only Climate Zones 10-16 for homes with electric space heating
Minor Home Repairs ¹	All Climate Zones and Residence Types

¹ There are multiple submeasures included under minor home repairs. Minor home repairs are constituted by services that either reduce infiltration (e.g., window repairs), mitigate a hazardous condition, or accommodate the installation of Program measures (e.g., attic venting). Furnace repairs and replacements ~~and water heater repairs and replacements~~ fall under the category of minor home repairs, and are provided only when necessary to mitigate NGAT fails and pursuant to the installation of infiltration-reduction measures. Water heater repairs and replacements are also considered minor home repairs, and are provided only to mitigate NGAT fails or to replace leaky water heaters. For the purposes of qualifying a home for the Program, all minor home repairs (combined) count as a single measure.

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- The unit is a central water heater serving more than one unit, or
- The customer refuses water heater repair.

Other Policies. The following other policies apply to water heater repairs and replacements:

- Water heater repair or replacement may be provided only when: (a) the appliance fails NGAT, and correction cannot be achieved with Service/ Adjustment by utility gas service personnel (or their designated representative), or (b) the tank has a water leak.⁺⁺
- Water heater replacements and major repairs may be provided only if the residence is owner-occupied. Service/Adjustment may also be conducted in renter-occupied homes.
- Water heater repairs and replacements will be provided only if the fuel used by the appliance is supplied by the utility providing LIEE Program services.
- Water heater replacement will not include hazardous material abatement, major structural alteration, concrete work, painting, or floor covering.
- A water heater may be repaired only if the cost of repairing the unit would be less than 50% of the cost of replacement.

7.3.19. Refrigerator Replacement

Non-Feasibility Criteria. Refrigerators shall not be replaced if:

- Any refrigerator to be removed was manufactured after 1992,
- The electrical outlet used by the existing refrigerator is not properly grounded and cannot be properly grounded,
- Floor is not level and cannot safely support a new refrigerator,
- The refrigerator is not accessible for removal (e.g., doors from room are too small, refrigerator is encased in tile),
- Hazardous electrical conditions exist at the outlet used by the existing refrigerator, or
- The customer refuses refrigerator replacement.

Other Policies. Other policies that apply to refrigerator replacement include the following.

- The minimum size for primary refrigerators replaced under the LIEE Program is 10 cubic feet.

⁺⁺ ~~A water heater will be considered to fail the NGAT if it has a leaky tank.~~

10.4 Timing of Combustion Appliance Testing

10.4.1. Homes with Natural Gas Appliances

For homes with natural gas appliances, post-weatherization NGAT protocols are conducted after weatherization. Post-weatherization NGAT shall be conducted within five (5) working days from the date that infiltration reduction measures are installed.

10.4.2. Homes for which Infiltration Reduction is Simulated

Temporary sealing/blocking of defective windows and doors, in order to perform post-weatherization NGAT, is allowed when required materials (such as specialty glass or special-order windows or doors) are not available to be installed concurrently with the other weatherization measures. NGAT will be conducted with the defect sealed/blocked (e.g., with plastic sheeting) to simulate infiltration reduction achieved by the completed window/door repair/replacement. A repeat of NGAT following the completed repair/replacement is not required.

10.5 Actions to be Taken When Appliances Fail NGAT

The following actions will be taken when appliances fail NGAT:

- In owner-occupied homes, natural gas space heaters failing one or more of the tests covered by the NGAT protocol will be provided with Service/Adjustment and, if necessary, will be repaired or replaced subject to Program policies and procedures.²
- In owner-occupied homes, natural gas water heaters failing one or more of the tests covered by the NGAT protocol will be provided with Service/Adjustment and, if necessary, will be repaired or replaced subject to Program policies and procedures.³
- In owner-occupied homes, non-program appliances⁴ failing one or more of the tests covered by the NGAT protocols will be provided with Service/Adjustment.⁵ If Service/Adjustment does not correct the problem in question, the appliance will be tagged, shut off, and/or capped and reported to the owner.
- In renter-occupied homes, appliances failing one or more of the tests covered by the NGAT protocol will be provided with Service/Adjustment.⁶ If Service/Adjustment

² Note that the absence of a furnace in cases where another gas appliance is used for space heating will constitute an NGAT fail.

³ ~~A water heater with a leaky tank will be considered to fail NGAT.~~

⁴ Appliances for which LIEE repair or replacement is not available.

⁵ In this context, Service/Adjustment of an appliance entails providing services that are within the scope of the gas service department for customers in general.

Section 21

CENTRAL HIGH EFFICIENCY AIR CONDITIONER REPLACEMENT STANDARDS

5. APPROVED MATERIALS

- All Units

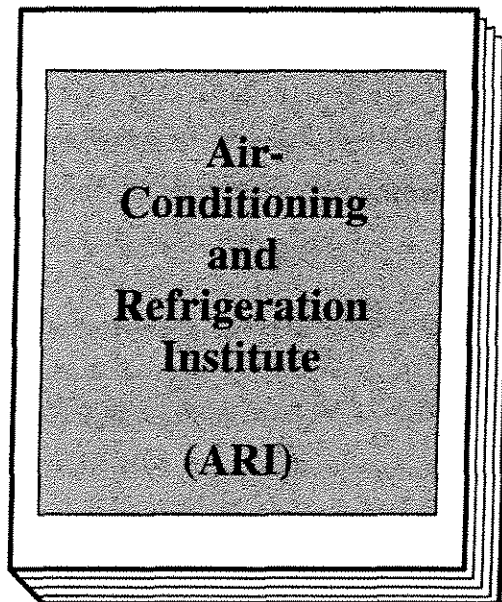
- All materials shall be in conformance with the CBC and CMC.
- Replacement air conditioning systems shall be rated by the Air-Conditioning and Refrigeration Institute (ARI).
- Programmable thermostat shall be selected and installed as prescribed in Section 23.

- Package Units (Dual Packs)

- Minimum SEER of 13.0 and ~~EER of 11.5~~.

- Split Systems

- Minimum SEER of 13.0 and ~~EER of 11.5~~ with a Thermostatic Expansion Valve (TXV).
- The SEER shall be determined by the coil match as listed in the current ARI Directory.



Section 21

4. SIZING CRITERIA

- System Size

- Unit shall be sized in accordance with Title 24 or local code, whichever is more stringent.
- The tonnage of the new system should be equal to or smaller than the existing system.

- Refrigerant Lines

- Shall be properly sized per manufacturer's specifications.
- Shall provide the rated SEER for the combination condenser and evaporator coil match.

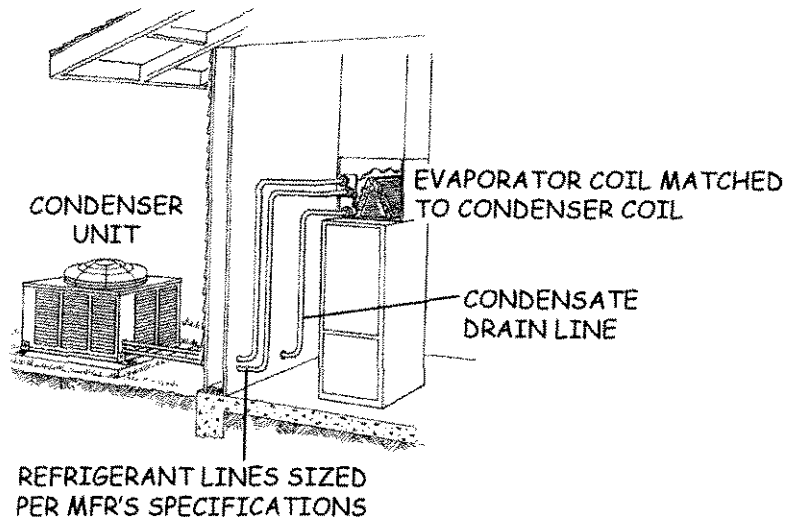
5. EVAPORATOR (INDOOR) COIL AND CONDENSER (OUTDOOR) COIL

- Split Systems

- An evaporator coil shall be installed which is verified to be a rated match with the condenser unit, as listed in current ARI Directory.
- The coil label shall be visible.
- Condenser coil and evaporator coil shall be verified to function properly.
- An access panel shall be provided for cleaning.

- Evaporator Coil Replacement

- Prior to charging, vacuum shall be drawn on the refrigerant lines to test for leaks and remove water vapor.
- Depth of vacuum and length of time shall be as specified by the manufacturer.



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Other Policies. Other policies that apply to refrigerator replacement include the following.

- The minimum size for primary refrigerators replaced under the LIEE Program is 10 cubic feet.

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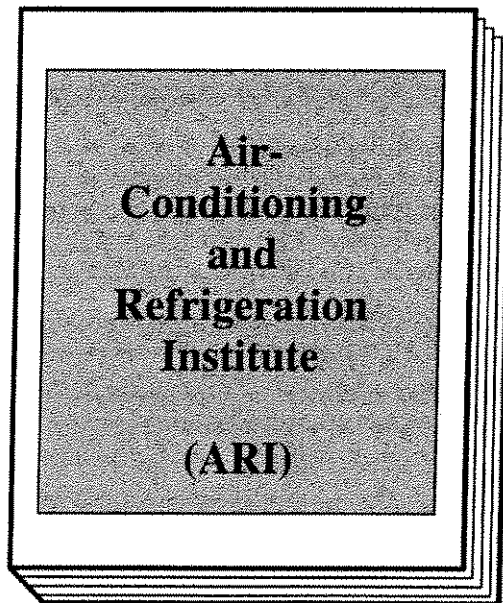
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- Minimum SEER of 13.0.

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